

CLAIMS

1. A method of quickly heating an ozone-solvent solution from a relatively low temperature T1 to a relatively high temperature T2, such that said ozone-solvent solution has a much higher dissolved ozone concentration at temperature T2 than could be achieved if the ozone-solvent solution had originally been formed at said temperature T2, comprising:

a) introducing said ozone-solvent solution at a temperature T1 into a heating volume, said heating volume also having an outlet orifice;

b) transferring sufficient power into said heating volume while said ozone-solvent solution is flowing through said heating volume to create a heated flowing ozone-solvent solution having a temperature T2 at the outlet orifice of the heating volume, such that said heated flowing ozone-solvent solution has a higher concentration of ozone than an equilibrium concentration of ozone at said temperature T2; and

c) receiving said heated flowing ozone-solvent solution at said temperature T2 from the outlet orifice of said heating volume.